

AMENDMENTS TO THE CLAIMS

Claims 1-30 (Cancelled).

Claim 31. (New) : A method for managing a signal, comprising:

generating a first sub-symbol by selecting a first value of a first signal parameter of a first frequency bin and selecting a second value of a second signal parameter of the first frequency bin;

generating a second sub-symbol by selecting a third value of the first signal parameter of a second frequency bin and by selecting a fourth value of the second signal parameter of the second frequency bin;

generating a pilot signal by using the first signal parameter of a third frequency bin;

generating a symbol signal by adding the first, the second, and the third frequency bins;

modulating a carrier signal with the symbol signal to form a modulated carrier signal; and

transmitting the modulated carrier signal during a symbol time such that the first sub-symbol, the second sub-symbol, and the pilot signal are simultaneously transmitted.